

## DAFTAR PUSTAKA

- Ahmad, I., Yusniah, A., Nur, Y., Prabowo, W. C., & Herman. (2020). Pengayaan Polifenol Total dari Daun Kadamba Menggunakan Metode Ekstraksi Berbantu Mikrowave Berbasis Pelarut Hijau. *Jurnal Farmasi Galenika (Galenika Journal of Pharmacy) (e-Journal)*, 6(2), 338–346. <https://doi.org/10.22487/j24428744.2020.v6.i2.15035>
- Alam, G., Wahyuono, S., Ganjar, I. G., Hakim, L., Timmerman, H., & Verpoorte, R. (2002). Tracheospasmolytic activity of viteosin-A and vitexicarpin isolated from Vitex trifolia. *Planta Medica*, 68(11), 1047–1049. <https://doi.org/10.1055/s-2002-35650>
- Baksi, A., Rajbangshi, J., & Biswas, R. (2021). Water in biodegradable glucose-water-urea deep eutectic solvent: Modifications of structure and dynamics in a crowded environment. *Physical Chemistry Chemical Physics*, 23(21), 12191–12203. <https://doi.org/10.1039/d1cp00734c>
- Benvenutti, L., Sanchez-camargo, P., Antônio, A., Zielinski, F., Regina, S., & Ferreira, S. (2020). NADES as potential solvents for anthocyanin and pectin extraction from Myrciaria cauli fl ora fruit by-product : In silico and experimental approaches for solvent selection. *Journal of Molecular Liquids*, 315, 113761. <https://doi.org/10.1016/j.molliq.2020.113761>
- BPOM RI. (2023). *Pedoman Penyiapan Bahan Baku Obat Bahan Alam Berbasis Ekstrak / Fraksi Badan Pengawas Obat dan Makanan Republik Indonesia ISBN Cetakan Pertama*. November, 45.
- Cao, S. L., Zheng, W. Y., Chen, Z. P., Zhang, F. L., Jiang, W. H., Qiu, Y. Q., Gu, M., Chen, Z. S., Zheng, T. Y., Zhang, H. K., Wang, S. Y., & Liao, L. (2021). Highly Efficient Deamidation of Wheat Gluten by Glucose-Citric Acid-Based Natural Deep Eutectic Solvent: A Potential Effective Reaction Media. *Journal of Agricultural and Food Chemistry*, 69(11), 3452–3465. <https://doi.org/10.1021/acs.jafc.0c07275>
- Carbone, K., Gervasi, F., Kozhamzharova, L., Altybaeva, N., Sönmez Gürer, E., Sharifi-Rad, J., Hano, C., & Calina, D. (2023). Casticin as potential anticancer agent: recent advancements in multi-mechanistic approaches. *Frontiers in Molecular Biosciences*, 10(May), 1–10. <https://doi.org/10.3389/fmolb.2023.1157558>
- Chan, E. W. C., Wong, S. K., & Chan, H. T. (2018). Casticin from Vitex species: a short review on its anticancer and anti-inflammatory properties. *Journal of Integrative Medicine*, 16(3), 147–152. <https://doi.org/10.1016/j.joim.2018.03.001>
- Chemat, F., Abert-Vian, M., Fabiano-Tixier, A. S., Strube, J., Uhlenbrock, L., Gunjevic, V., & Cravotto, G. (2019). Green extraction of natural products. Origins, current challenges. *TrAC - Trends in Analytical Chemistry*, 118, 248–258. <https://doi.org/10.1016/j.trac.2019.05.037>
- Čelak, V., Pešić, M., Brñić, M., Bosiljkov, T., & Levaj, B. (2013). Effect of extraction solvents, temperature and time on the composition and polyphenols in dalmatian wild sage (*Salvia officinalis* L.) extracts. *Food Chemistry and Biotechnology*, 51(1), 84–91.



Dika, F., Riswanto, O., Rohman, A., Pramono, S., & Martono, S. (2019). *Application of response surface methodology as mathematical and statistical tools in natural product research*. 9(10), 125–133. <https://doi.org/10.7324/JAPS.2019.91018>

Dong, J. N., Wu, G. D., Dong, Z. Q., Yang, D., Bo, Y. K., An, M., & Zhao, L. S. (2021). Natural deep eutectic solvents as tailored and sustainable media for the extraction of five compounds from compound liquorice tablets and their comparison with conventional organic solvents. *RSC Advances*, 11(59), 37649–37660. <https://doi.org/10.1039/d1ra06338c>

Du, G., Hong, W., Li, Z., Liu, Y., & Wang, C. (2023). Process optimization of deep eutectic solvent-based microwave-assisted extraction of flavonoids from *Ziziphi Spinosae Semen* using response surface methodology. *Food Science and Technology (Brazil)*, 43, 1–10. <https://doi.org/10.1590/fst.122622>

Fernandes, C., Aliaño-González, M. J., Cid Gomes, L., Bernin, D., Gaspar, R., Fardim, P., Reis, M. S., Alves, L., Medronho, B., Rasteiro, M. G., & Varela, C. (2024). Lignin extraction from acacia wood: Crafting deep eutectic solvents with a systematic D-optimal mixture-process experimental design. *International Journal of Biological Macromolecules*, 280(September). <https://doi.org/10.1016/j.ijbiomac.2024.135936>

Gong, G., Shen, Y. L., Lan, H. Y., Jin, J. M., An, P., Zhang, L. J., Chen, L. L., Peng, W., Luan, X., & Zhang, H. (2021). The Cyr61 Is a Potential Target for Rotundifuran, a Natural Labdane-Type Diterpene from *Vitex trifolia* L., to Trigger Apoptosis of Cervical Cancer Cells. *Oxidative Medicine and Cellular Longevity*, 2021. <https://doi.org/10.1155/2021/6677687>

Hiew, C. W., Lee, L. J., Junus, S., Tan, Y. N., Chai, T. T., & Ee, K. Y. (2022). Optimization of microwave-assisted extraction and the effect of microencapsulation on mangosteen (*Garcinia mangostana* L.) rind extract. *Food Science and Technology (Brazil)*, 42, 1–10. <https://doi.org/10.1590/fst.35521>

Koh, Q. Q., Kua, Y. L., Gan, S., Tan, K. W., Lee, T. Z. E., Cheng, W. K., & Lau, H. L. N. (2023). Sugar-based natural deep eutectic solvent (NADES): Physicochemical properties, antimicrobial activity, toxicity, biodegradability and potential use as green extraction media for phytonutrients. *Sustainable Chemistry and Pharmacy*, 35(July), 101218. <https://doi.org/10.1016/j.scp.2023.101218>

Mottaghipisheh, J., Kamali, M., Doustimotlagh, A. H., Nowroozzadeh, M. H., Rasekh, F., Hashempur, M. H., & Iraji, A. (2024). A comprehensive review of ethnomedicinal approaches, phytochemical analysis, and pharmacological potential of *Vitex trifolia* L. *Frontiers in Pharmacology*, 15(March), 1–23. <https://doi.org/10.3389/fphar.2024.1322083>

Musa, N., Banerjee, S., Maspalma, G. A., Usman, L. U., & Hussaini, B. (2020). Assessment of the phytochemical, antioxidant and larvicidal activity of essential oil from simpleleaf Chastetree [*vitex trifolia*] leaves obtained from Ganye town, Adamawa State-Nigeria. *Materials Today: Proceedings*, 34, 3438. <https://doi.org/10.1016/j.matpr.2021.03.375>



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[www.balesio.com](http://www.balesio.com)

W. (2015). HPTLC densitometry method for simultaneous estimation of flavonoids in selected medicinal plants. *Frontiers in Life Science*, 7(1), 1–8. <https://doi.org/10.1080/21553769.2014.969387>

- Pisano, P. L., Espino, M., Fernández, M. de los Á., Silva, M. F., & Olivieri, A. C. (2018). Structural analysis of natural deep eutectic solvents. Theoretical and experimental study. *Microchemical Journal*, 143, 252–258.  
<https://doi.org/10.1016/j.microc.2018.08.016>
- Prommuak, C., De-Eknamkul, W., & Shotipruk, A. (2008). Extraction of flavonoids and carotenoids from Thai silk waste and antioxidant activity of extracts. *Separation and Purification Technology*, 62(2), 444–448.  
<https://doi.org/10.1016/j.seppur.2008.02.020>
- Ramadhani, F. A., Kusumawati, I., Primaharinastiti, R., Rullyansyah, S., Sandhori, F. J., & Prasetyawan, H. R. (2023). Comparative Study of Densitometry and Videodensitometry for Quantitating the Active Pharmaceutical Ingredients Using Thin Layer Chromatography – Systematic Review. *Jurnal Farmasi Dan Ilmu Kefarmasanian Indonesia*, 10(2), 141–150.  
<https://doi.org/10.20473/jfiki.v10i22023.141-150>
- Ramchandani, S., Naz, I., Lee, J. H., Khan, M. R., & Ahn, K. S. (2020). An overview of the potential antineoplastic effects of casticin. *Molecules*, 25(6).  
<https://doi.org/10.3390/molecules25061287>
- Sasongko, A., Nugroho, R. W., Setiawan, C. E., Utami, I. W., & Pusfitasari, M. D. (2018). Aplikasi Metode Nonkonvensional Pada Ekstraksi Bawang Dayak. *JTT (Jurnal Teknologi Terpadu)*, 6(1), 8. <https://doi.org/10.32487/jtt.v6i1.433>
- Supiana, H. (2022). UJI AKTIVITAS ANTIBAKTERI EKSTRAK ETANOL DAUN LEGUNDI ( Vitex trifoli Linn ) TERHADAP BAKTERI ESCHERICHIA COLI. *Heni Supiana Journal of Public Health and Medical Studies*, 1(1), 39–53.
- Viganó, J., Assis, B. F. de P., Náthia-Neves, G., dos Santos, P., Meireles, M. A. A., Veggi, P. C., & Martínez, J. (2020). Extraction of bioactive compounds from defatted passion fruit bagasse (*Passiflora edulis* sp.) applying pressurized liquids assisted by ultrasound. *Ultrasonics Sonochemistry*, 64(January), 104999.  
<https://doi.org/10.1016/j.ultsonch.2020.104999>
- Wang, B., Qu, J., Luo, S., Feng, S., Li, T., Yuan, M., Huang, Y., Liao, J., Yang, R., & Ding, C. (2018). Optimization of ultrasound-assisted extraction of flavonoids from olive (*olea europaea*) leaves, and evaluation of their antioxidant and anticancer activities. *Molecules*, 23(10). <https://doi.org/10.3390/molecules23102513>
- Wei, Z. F., Wang, X. Q., Peng, X., Wang, W., Zhao, C. J., Zu, Y. G., & Fu, Y. J. (2015). Fast and green extraction and separation of main bioactive flavonoids from *Radix Scutellariae*. *Industrial Crops and Products*, 63, 175–181.  
<https://doi.org/10.1016/j.indcrop.2014.10.013>
- Yaqin, X., Rui, Z., & Hong, F. (2005). Studies on the optimal process to extract flavonoids from red-raspberry fruits. *Nature and Science*, 3(2), 1689–1699.
- Kiawati, N. M. W., Dewi, N. L. K. A. A., Sanjaya, D. A., & E. (2020). Aktivitas Analgesik Ekstrak Daun Liligundi (Vitex trifolia L.). *Farmasains : Jurnal Ilmiah Ilmu Kefarmasanian*, 6(2), 73–78.  
<https://doi.org/10.22236/farmasains.v6i2.5135>
- , Ardana, M., Herman, Ibrahim, A., Rijai, L., Nainu, F., & Ahmad, , Optimized using trial version www.balesio.com



microwave-assisted extraction of total polyphenols content from eleutherine bulbosa (Mill.) bulb. *Indonesian Journal of Chemistry*, 21(4), 797–805.  
<https://doi.org/10.22146/ijc.58467>



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